

ABSTRACT OF THE DISCLOSURE

Disclosed are systems and methods for transferring data between servers and subscribers.

A central office employs DSL circuit cards. Each DSL circuit card encodes a digital signal using a discrete multitone technology (DMT) scheme, and sends an encoded signal on a subscriber line. A disclosed architecture allows the functions of a faulty DSL circuit card to be assumed by another card, without substantial disruption of subscriber service. Further, the architecture allows the faulty DSL to be physically replaced, with minimal disruption of subscriber service. Another aspect of the architecture allows for the testing of subscriber lines.